

-TOP SECRET

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003705

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16 August 1961 NPIC/IM-7/61

MEMORANDUM FOR:

Assistant Director for Scientific Intelligence

(CIA/OSI)

THROUGH

TALENT Control Officer, CIA/OSI

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ATTENTION

SUBJECT

Search for Indications of Nuclear Testing in Areas of Seismic Events (8 November 1958 -31 December 1959) in the USSR and China

REFERENCES

- (a) Requirement OSI/R-55/61
- (b) NPIC Project JN 99/61
- 1. The purpose of this memorandum is to present the results of a photographic search of 175 unidentified seismic events in 1958 and 1959 submitted with OSI Requirement R-55/61. The search was for any signs of preparations for, or effects of, any clandestine nuclear testing in the USSR, China, and Mongolia. No indications of nuclear testing were identified.
- 2. Where photography was available, an area having a radius of approximately 25 nautical miles (nm) from the coordinates of the epicenter of each event was searched. In many cases only part of the area was covered by photography and in some cases the area was partially or completely covered by clouds and/or haze.
- 3. It should be kept in mind that the characteristics of some of the photography (small scale, poor image quality, obliquity, partial coverage, weather conditions, etc.) considerably hindered the photographic search.

- 1 -

in 19	earch for Indic Areas of Seis 958 - 31 Decem hina	mic Events	(8 November	
4. The fo	llowing is the	status of pho	otographic cov	erage of the epi-
a. Epicer	nters with com	plete photog	raphic covera	ge 92
b. Epicer	aters with part	ial photogra	phic coverage	26
c. Epicer	nters without p	hotographic	coverage	57
*			TO	OTAL 175
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6. This is R-55/61. This 8 November 1	hic interpretats the second of is memorandur 958 to 31 Dece	aphic coveration search. I two memorim includes ember 1959 nemorandum	ge available, anda in answe	and the results or r to OSI Require eismic events fr
6. This is R-55/61. This 8 November 1	s the second of is memorandur 958 to 31 Dece	aphic coveration search. I two memorim includes ember 1959 nemorandum	ge available, anda in answe	and the results or r to OSI Require eismic events fr
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TOP SECRET CHESS RUFF

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			Declassified i	n Part - Sanitized Copy Approved for Release 2011/10/20 : CIA-RDP78	BT05439A000200070	134-8	
TOP	SECRET	CHESS	RUFF	25X1	ε.	NPIC/IM-7/61 Enclosure	
				PHOTOGRAPHIC COVERAGE OF AREAS OF UNIDENTIFIED SEISMIC EVENTS			25X1
			•	25X1			23/1

DATE OF SEISMIC EVENT	LOCATION & COORDINATES	WAC	REMARKS	
8 Nov 58	Siberia 61-30N/134E	124	Partial coverage. Com Nothing pertinent iden	
8 Nov 58	Komandorskiye Is. 54-30N/168E	193	No photo coverage.	
11 Nov 58	Siberi a 60-30N/118-48E	125	Complete coverage. No identified.	thing pertinent
19 Nov 58	Sinkiang 42-30N/88E	330	No photo coverage.	
28 Nov 58	Kamchatka 53-30N/159-48E	194	Complete coverage. Coverage. Nothing pe	
30 Nov 58	Kamchatka 54-12N/157E	194	No photo coverage.	
30 Nov 58	Nan Shan 37-48N/101E	332	Complete coverage Partial Coverage Nothing pertinent iden	tified.
1 D ec 58	Kamchatka 53-48N/157-18E	194	No photo coverage	
3 Dec 58	Sinkiang 43-36N/84E	330	. No photo coverage	

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^{*}SC -- Scattered clouds. HC -- Heavy clouds.

TOP SECRET	CHESS RUFF		25X1 NPIC/IM-7/61	25X1	 [.] 25X1
18 Dec 58	Sinkiang 01N/102E	436,495	Complete coverage. Mountainous terrain. Nothing pertinent identified.		·
21 Dec 58	Sinkiang 44-18N/81E	244	Complete coverage. Partial coverage. Nothing pertinent ident.		•
28 Dec 58	Ningsia Province 40N/107E	28 7, 288, 383	No photo coverage.		
30 Dec 58	Kamchatka 56-12N/161-18E	132	Complete coverage. Partial coverage. Complete coverage. Nothing pertinent identified.		
4 J a n 59	Siberia 65N/155E	73	Heavy clouds completely obscure area.		
12 Ja n 59	Siberia 61N/150E	123	Complete coverage. Nothing pertinent identified.		
16 Jan 59	Sinkiang 40N/80E	329,335	No photo coverage.		
24 Jan 59	Kamchatka 54N/159E	194 O	Partial coverage. Nothing pertinent identified.		
9 Feb 59	Kamchatka 50N/156E	206	No photo coverage.		
15 Feb 59	China 44N/84E	243,330	No photo coverage.		
15 Feb 59	China 42N/102E	287	No photo coverage.		
22 Feb 59	Kamchatka 52N/158E	194,206	Complete oblique coverage. Nothing pertinent identified.		

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TOP SECRET	CHESS RUFI	F.	25X1 25X1	25X1	NPIC/IM-7/61	25X1	25 X
23 Feb 59	Kamchatka 53N/159E	194			Partial coverage Complete oblique coverage Epicenter approx 4 nm offshore & 13 nm ESE of Petropavlovsk-Kamchatskiy complex. nothing pertinent identified.	-	
4 Mar 59	China 30N/108E	494,495			No photo coverage.		
4 Mar 59	Iake Baikal 56N/112E	128,199		_	No photo coverage	-	
5 Mar 59	Kamchatka 54N/160E	194			Partial coverage. Partial oblique. Nothing pertinent identified.	_	
10 Mar 59	Kirgiz, SSR 41N/74E	328			Area obscured by clouds. Complete coverage. Mining area at Kok-Yangak (41-00/73-14E) Approx. 26 nm W of epicenter. Nothing pertinent identified.		
11 Ma r 59	China 28N/104E	495,496			No photo coverage.	_	
11 Mar 59	Siberia 62N/146E	123			No photo coverage.	_	
13 Mar 59	China 30N/100E	436			No photo coverage.	_	
16 Mar 59	. Kuril Islands 45N/148E	280			© Complete oblique coverage. Nothing pertinent identified.	_	
18 Mar 59	Okhotsk Sea 51N/155E	206			Clouds preclude interpretation.		

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TOP SECRET	CHESS R	KUFF	20//	NPIC/IM-	7/ 61 25X1
3 Ma r 59	China 30N/100E	436	25X1	No photo coverage.	25X1
9 Ma r 59	Kuril Islan 45N/147E	ds 280,281		Complete oblique coverage. Nothing pertinent identified.	
5 Mar 59	Tadzhik 39N/71E	336		Partial coverage. (Approx. 75%) Nothing pertinent identified.	
6 Mar 59	Tadzhik 39N/71E	336		Refer 25X1	
8 Ma r 59	Kuril Islan 48 N /153E	ds 206,280		No photo coverage.	
0 Ma r 59	China 26N/101E	496,555		Partial oblique coverage. Nothing pertinent identified.	
A pr 59	Kamchatka 56N/163E	194		Complete coverage. Complete oblique coverage. Nothing pertinent identified.	
A pr 59	Caspian Sea 39N/49E	339		Complete coverage. Heavy clouds obscure area. Complete coverage. Complete coverage much of area. Oil-producing area. Nothing of pertinent identified.	
A pr 59	Kamchatka 53N/160E	194		Complete coverage. Complete oblique coverage. Nothing pertinent identified.	
A pr 59	Kuril Islan 46 n/ 150E	ds 280		° No photo coverage.	
1 A pr 59	Kuril Islan 46N/150E	ids 280		No photo coverage.	

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TOP SECRE	ET CHESS RUFF		25X1	•	NPIC/IM-7/61	5
15 A pr 59	Kamchatka 54N/160E	194	25X1 ·	Refer	25X1	25X1
18 Apr 59	Caspian Sea 42N/47E	325		Complete coverage. heavy clouds	Area obscured by	-
22 Apr 59	Chin a 40N/104E	287,383		No photo coverage.		_
25 A pr 59	Kamchatka 53N/160E	194		Refer	25X1	
27 Apr 59	China 33N/93E	434		Oblique coverage. Partial oblique cov Nothing pertinent		_
28 Apr 59	China 29 N /104E	495		No photo coverage.		
30 Apr 59	China 33N/95E	434,435		Partial oblique conterrain with few so Nothing pertinent	verage. Mountainous igns of human activity. identified.	
1 May 59	Mongolia 44N/104E	286,287		No photo coverage.		
2 May 59	Kamchatka 50N/156E	206		No photo coverage.		_
5 May 59	Kamchatka 53N/159E	194		Partial coverage. Complete oblique c Nothing pertinent		
7 May 59	Kamchatka 53N/159E	194		Refer	25X1	
8 May 59	Kamchatka 54N/159E	194		Refer	25X1	

TOP SECRET CHESS RUFF

TOP SECRET	CHESS RUF	F	25X1	NPIC/IM-7/61 25X1	.5
May 59	Kamchatka 53N/160E	194	25X1	Refer 25X1	, •
May 59	Ċņin a ·26N/103E	496		Partial coverage. Nothing pertinent identified.	
1 May 59	Lake Baikal 56N/117E	128,199		Complete coverage. Nothing pertinent identified.	-
1 Ma y 59	Okhotsk Se a 55N/156E	194		Complete coverage. Haze and clouds preclude interpretation.	
3 Ma y 59	China 33N/96E	435		Complete coverage (oblique). Nothing pertinent identified.	-
6 May 59	Kamchatka 55N/162E	194		Complete coverage. Complete oblique coverage. Complete oblique coverage. Nothing pertinent identified.	_
1 May 59	Kamchatka 53N/160E	194		Refer 25X1	_
Jun 59	Lake Baikal 52N/109E	200,201		Complete coverage. Nothing pertinent identified.	-
Jun 59	Kamchatka 55N/162E	194		Refer 25X1	
.3 J un 59	China 38N/105E	383		No photo coverage	-
18 Ju n 59	Kamchatka 57N/156E	132		Partial coverage. Nothing pertinent identified.	_
18 J un 59	Kamchatka 54N/160E	194		Refer 25X1	_

25X1

TOP SECRE	T CHESS RUFF	F	25X1 NPIC/IM-7/61	25X1	2
8 Jun 59	Kamchatka 55N/160E	194	Partial coverage. Partial coverage. Nothing pertinent identified.		
8 Jun 59	Kamchatka 54N/159E	194	Refer 25X1		
0 J un 59	Kamchatka 54N/160E	194	Refer 25X1		
1 Jun 59	Lake Baikal 56N/114E	128,199	Complete coverage. Nothing pertinent identified.		
3 Jun 59	Kamchatka 54N/160E	194	Refer 25X1	-	
3 Jun 59	China 42N/83E	329,330	No photo coverage.		
4 Jun 59	Kamchatka 53N/160E	194	Refer 25X1		
4 Jun 59.	China 41N/82E	329	Complete coverage. Probable agricultural experimentation area. Nothing pertinent identified.		
7 Jun 59	China 42N/80E	329	Complete coverage. Partial coverage. Area in glacial region. Nothing pertinent identified.	_	
Jul 59	China 32N/95E	434,435	Complete coverage. Nothing pertinent identified.	-	•
Jul 59	China 31N/95E	437	Complete coverage. Complete coverage. Mountainous terrain. Only minor roads & trails & small villages in area. Nothing pertinent identified.		

P SECRE	T CHESS RUFF		25X1		NPIC/IM-7/61
1 59	China 41N/83E	329,330	25X1	No photo coverag	e.
1 59	Kuril Islands 45N/147E	281		Refer	25X1
ul 59	China 33N/93E	434		Refer	25X1
ul 59	ussr 41n/73E	328		Complete coverage Kok-Vangak (41-0	ge. Details obscured. ge. Mining area at NON/73-14E), 10 miles Nothing pertinent
ul 59	Kuril Islands 50N/155E	206		Partial coverage Nothing pertiner	t identified.
Tul 59	ussr 39n/73E	336		Complete coverage Partial coverage identified.	ge. e. Nothing pertinent
Jul 59	Kuril Islands 51N/156E	206		Complete covers	ge. nt identified.
Jul 59	Sakhalin Island 50N/143E	205		Complete covera Nothing pertine	nt identified.
Jul 59	Siberia 60N/144E	123,131		Heavy clouds ob	
Jul 59	China 28N/102E	436,496		Complete covera most of area.	ge. Heavy clouds obscure Nothing pertinent identified.
Jul 59	Kamchatka 56N/163E	194		Complete covers Nothing pertine	ent identified.
Jul 59	Mongolia 44N/101E	286,287		No photo covers	ge.

TOP SI	CRET CHESS RUF	F	25X1		MDTG /TM G	162	25X1
6 Aug 59	Kamchatka	194	25X1	Refer	NPIC/IM-7	25X1	20/(1
	53N/160E			Refer	25X1		• •
8 Aug 59	Kamchatka 53N/159E	194		Refer	25X1		•
8 Aug 59	China 39N/76E	335		Partial cover Complete cove Nothing perti	age. rage. nent identified.		
10 Aug 59	China 40N/78E	329,335		No photo cove			:
10 Aug 59	Kamchatka 54N/160E	194		Refer	25X1		:
12 Aug 59	China 27N/103E	496		Complete cove	rage. nent identified.	_	:
12 Aug 59	Kamchatka 52N/158E	206		Refer	25X1	_	
13 Aug 59	Kamchatka 53N/160E	194		Refer	25X1	_	
15 Aug 59	Kuril Islands 50N/156E	206		No photo cove	rage		
20 Aug 59	Tadzhik 39N/72E	336		Partial (appro	ox 60%) coverage. ox 20%) coverage. obscure area. Nothing		
21 Aug 59	China 39N/104E	383		No photo cover			
24 Aug 59	Kamchatka 53N/160E	194		Refer	25X1		

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a settle						0		
Aug 59	China 31N/105E		495		Complete covers	age. ent identified.		
Aug 59	China 39N/113E		382		Partial covera	ge.		
Aug 59	China 39N/75E		335		Complete covere Nothing pertine	age. ent identified.		
A ug 59	Lake Baika 53N/107E	1	200		Complete covere	age. ent identified.		
Aug 59	Lake Baika 52N/107E	1	200,201		Complete covere Nothing pertine	age. ent identified.		
A ug 59	Lake Baika 52N/107E	1	201		Refer	25X1		
Aug 59	Lake Baika 53N/107E	1	200		Refer	25X1		
A ug 59	Lake Baiks 53N/107E	1	200		Refer	·25X1		
Aug 59	Lake Baike 52N/107E	1	200,201		Refer	25X1		
ep 59	China 36N/85E		334,433		No photo covere	age.		
lep 59	Kamchatka 55N/160E		194		Refer	25X1		
ep 59	Lake Baiks 53N/108E	1	200		Complete covere	age. ent identified.		
S ep 59	Kamchatka 53N/157E		194		No photo cover	age.		

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TOP SECRET CHESS RUFF

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SECRET	CHESS RUFF		25X1	NPIC/IM-7/61	
			25X1		25X1
59 	Kuril Islands 47N/151E	280		No photo coverage.	
59	Kamchatka 53N/160E	194		Refer 25X1	
59	Kuril Islands 50N/155E	206		Refer 25X1	
59	China 37N/77E	335		No photo coverage.	-
59	Kirgiz 41N/75E	328,329		Partial coverage. HC obscure most of area. Complete coverage. Nothing pertinent identified.	_
59	Kazakh 50N/70E	237,238		Complete coverage. Clouds obscure area. Nothing pertinent identified.	
59	Lake Baikal 52N/108E	200,201		Complete coverage. Nothing pertinent identified.	
59	Kamchatka 57N/159E	132		No photo coverage.	
59	Caucasus Mts. 44N/39E	249,324		Complete coverage. Complete oblique coverage. Complete oblique coverage. Densely populated area. Epicenter approx 6 nm from land in Black Sea. Nothing pertinent identified.	
59	China 33N/110E	385		No photo coverage.	
59	W of L. Baikal 53N/100E	160		Complete coverage. Nothing pertinent identified.	
	59 59 59 59 59 59 59	59 Kuril Islands 47N/151E 59 Kamchatka 53N/160E 59 Kuril Islands 50N/155E 59 China 37N/77E 59 Kirgiz 41N/75E 59 Kazakh 50N/70E 59 Lake Baikal 52N/108E 59 Kamchatka 57N/159E 59 Caucasus Mts. 44N/39E 59 China 33N/110E 59 W of L. Baikal	47N/151E 59 Kamchatka 194 59 Kuril Islands 206 59 China 335 37N/77E 59 Kirgiz 328,329 41N/75E 59 Kazakh 237,238 50N/70E 59 Lake Baikal 200,201 52N/108E 59 Kamchatka 132 57N/159E 59 Caucasus Mts. 249,324 44N/39E 59 China 385 33N/110E 59 W of L. Baikal 160	25X1	NPIC/IM-7/61 Section 1 State

TOP SECRET	CHESS RUFF		25X1	NPIC/IM-7/61	
19 S ep 59	China	436	25X1	No photo coverage.	2
Oct 59	31N/99E Kamchatka 54N/156E	194		Complete coverage. HC obscure area.	
Oct 59	W of L. Baikal 53N/100E	160		Refer 25X1	
3 O ct 59	China 40N/78E	329,335		No photo coverage.	
3 Oct 59	Lake Baikal 53N/107E	200		Refer 25X1	
11 O ct 59	Kuril Islands 45N/148E	280		Keler	•
13 Oct 59	China 47N/116E	284		Area obscured by clouds.	_
1& Oct 59	Lake Baikal 54N/107E	200		Complete coverage. Nothing pertinent identified.	
23 Oct 59	Kazakh 43N/62E	327		Complete coverage. Desert area. Nothing pertinent identified.	
24 Oct 59	Black Sea 43N/40E	324		Complete oblique coverage. Nothing pertinent identified.	- !
24 Oct 59	Kirgiz 41N/70E	328		Complete coverage. Area of probable mining exploration (41-19N/70-07E) approx. 6 nm NNW of Augren. No pertinent activity identified.	
25 Oct 59	Kirgiz 41N/70E	328		Refer 25X1	

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0ct	59	S of L. Baik 45N/82E	al 244		Partial coverage. Scattered farming activity. Nothing pertinent identified.	<u>.</u>	- ' , '	
0ct	59	Kamchatka 55N/155E	195		Complete coverage. Haze and clouds preclude interpretation.	_		
0ct	59	Kamchatka 50N/156E	206		No photo coverage.	-		
0ct	59	Kamchatka 53N/159E	194		Refer 25X1	_		
0ct	59	Siberi a 65N/138E	72		No photo coverage.	_		
Nov	59	China 36N/89E	434		No photo coverage.	-		
Nov	59	Mongolia 47N/100E	286		No photo coverage.	_		
Nov	59	China 43N/99E	287		No photo coverage.	-		
Nov	59	Caspian Sea 40N/49E	325,339		Complete coverage. Partial coverage. Epicenter falls in oil- producing area. Much track activity and a few oil rigs observed in the area. Nothing pertinent identified.		:	
Nov	59	China 40N/79E	329,335		No photo coverage.			
Nov	59	China 31N/114E	493,494		Partial coverage. Nothing pertinent identified.			
Nov	59	USSR 71N/127E	68		No photo coverage.	25X1		

TOP SECRET	CHESS RUF	F	25X1	NPIC/IM-7/61		,
		•	25X1	M210/113-1/01	25X1	25 X 1
5 Nov 59	Kara Sea 73N/74E	45		No photo coverage.		
8 Nov 59	China / 3 * 38N/104E	383		Partial oblique coverage. Nothing pertinent identified.		
8 Nov 59	Kamchatka 56N/163E	194		Complete coverage. Nothing pertinent identified.		
9 Nov 59	Kirgiz, SSR 42N/77E	329		Partial coverage.		
				Partial coverage. Partial coverage. Uranium mining area & uranium processing plant. Nothing pertinent identified.		
0 Nov 59	China 44N/81E	329		Complete coverage. Poor image quality. Partial coverage. Nothing pertinent identified.		
Dec 59	Mongolia 45N/100E	286,287		No photo coverage.		
Dec 59	Caucasus Mts.	325		No photo coverage.		
Dec 59	Caucasus Mts. 41N/44E	325		Partial coverage. Area obscured by weather. Partial coverage. Nothing pertinent identified.		
12 Dec 59	Mongolia 49N/100E	241		Complete coverage. Area showed considerable activity. Village at 49-27N/101-29E had multistory buildings uncommon to area. Many road-served possible mine entrances observed		
				Nothing pertinent identified.	•	

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TOP SECRET	ET CHESS RUFI	÷	25X1	NPIC/IM-7/61
				25X1 25X1
	China 6- 40N/79E	329,335	25X1	No photo coverage.
Dec 59	Kuril Islands 47N/151E	280		No photo coverage.
5 Dec 59	China 40N/78E	329,335		No photo coverage.
Dec 59	China 44N/86E	243,330		No photo coverage.
5 Dec 59	China 34N/118E	386		Partial coverage. Many canals under construction. Nothing pertinent identified.
Dec 59	Kazakh 43N/67E	327,328		Complete coverage. Nothing pertinent identified.
Dec 59	Kuril Islands 45N/147E	281		Refer 25X1
P. Dec 59	Siberia 66N/140E	72		No photo coverage.
Dec 59	Mongoli a 45N/101E	286		No photo coverage.
Dec 59	Kamchatka 51N/157E	206		Cloud cover precludes interpretation.
Dec 59	ussr 55n/95e	160		No photo coverage.
Dec 59	China 42N/87E	330		No photo coverage.

TOP SECRET CHESS RUFF

TOP SEC	RET CHESS RUF	25X1	5X1 NPIC/IM-7/61 25X1	25X1
27 Dec 59	Kamchatka 56N/162E	194	Complete coverage. Complete coverage. Nothing pertinent identified.	
27 Dec 59	Manchuria 49N/130E	203	Partial coverage. Complete coverage. Mining activity in area. Active mining and explosives storage at 49-19N/130-10E. Nothing pertinent identified.	,
28 Dec 59	Kamchatka 57N/160E	132	Partial coverage. Partial coverage. Nothing pertinent identified.	
28 Dec 59	Kamchatka 56N/161E	194	Partial coverage. Partial coverage. Complete coverage. Military area observed. Nothing pertinent identified.	
29 Dec 59	Kamehatka 56N/161E	132,194	Refer 25X1	